

Ref. No.: EX/PHARM/T/211/2017(S)

B. PHARMACY 2<sup>nd</sup> YEAR 1<sup>st</sup> SEM SUPPLEMENTARY  
EXAM-2017

Subject: Pharmaceutics-III Time: 3hours Full Marks: 100  
Group: A

Answer any five questions taking at least one from each group

Q. 1. Write short note on Colorants, flavouring agents & other Organoleptic Additives used in the field of Pharmacy & Medicine. (20)

Q.2. Write an explanatory note with suitable example, on surfactants & drug action. (20)

Q.3. Write an explanatory note with suitable example, on surfactants & pharmaceutical products. (20)

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B. Pharm 2<sup>nd</sup> year, 1<sup>st</sup> Semester Supplementary Examination 2017

Subject Pharmaceutics III

Group B

4. Define rheogram. Give its importance in liquid formulations. Discuss about various rheograms. Describe two individual methods in details with the development of relevant equations for determination of viscosity of Newtonian and non-Newtonian liquids, respectively.

$$2+2+6+10 = 20$$

5. What do you mean by complexation? Write about metal ion complexation in details with relevant examples in each type of cases. Deduce the equation for Klotz's reciprocal plot to determine drug-protein bindings. Give the limitation of the equation and its solution.

$$2+12+4+2 = 20$$

B. PHARM 2<sup>ND</sup> YEAR 1<sup>ST</sup> SEMESTER EXAMINATION, 2014

JECT PHARMACEUTICS – III

GROUP - C

Full marks: 30/100

Time: Three hours

6. (a) What do you understand by 'Whisker Crystallization'? How does it occur? Explain the ways in stabilizing such crystal growth 8
- (b) With a suitable example explain degradation due to Oxidation. How can it be prevented? 6
- (c) Outline the steps to be undertaken for stabilization of drugs in relation to containers and closures. 6
7. (a) With suitable examples explain hydrolysis giving special references to amides, esters and barbiturates. 4+6
- (b) Elaborate the various functional changes in dosage forms with time. 10